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This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

(Cancelled) 1.

2. (Original) A system comprising:

a first heat pipe having an evaporator and a condenser, the first heat pipe being mounted with the evaporator inside the canister and the condenser outside the canister;

a second heat pipe having an evaporator thermally coupled to the condenser of the first heat pipe, the second heat pipe having a condenser; and means for dissipating heat from the condenser of the second heat pipe.

3. (Cancelled)

4. (Original) A system for cooling a canister, comprising:

a first heat pipe having an evaporator and a condenser, the first heat pipe being mounted with the evaporator inside the canister and the condenser outside the canister;

a second heat pipe having an evaporator thermally coupled to the condenser of the first heat pipe, the second heat pipe having a condenser;



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a third heat pipe having an evaporator thermally coupled to the condenser of the second heat pipe, the third heat pipe having a condenser; and means for dissipating heat from the condenser of the third heat pipe.

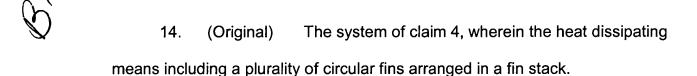
- 5. (Original) The system of claim 4, wherein the canister is at least partially buried below ground, and the first heat pipe is positioned entirely below a ground surface.
- 6. (Original) The system of claim 4, wherein the second heat pipe is partially buried below the ground surface, and partly above the ground surface.



- 7. (Original) The system of claim 4, wherein the third heat pipe is completely above the ground surface.
- 8. (Original) The system of claim 4, wherein the second heat pipe is a thermosyphon.
- 9. (Original) The system of claim 4, wherein the evaporator of the third heat pipe is oriented substantially vertically, and the condenser of the third heat pipe is at a substantial angle away from vertical.
- 10. (Original) The system of claim 9, wherein the angle of the condenser of the third heat pipe is at least about 5 degrees from horizontal.

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- 11. (Original) The system of claim 4, wherein the first heat pipe is mounted to a motor housing of a flywheel system within the canister.
- 12. (Original) The system of claim 11, wherein the first heat pipe is mounted within a block of metal having a hole therethrough to receive the heat pipe, the block being mounted to the flywheel system.
- 13. (Original) The system of claim 4, wherein the canister is a vacuum housing.



- 15. (Original) The system of claim 4, wherein at least one of the heat pipes has a wick in the evaporator thereof that does not extend into the condenser thereof.
- 16. (Original) The system of claim 4, wherein at least one of the heat pipes has a wick formed of sintered metal.
 - 17. (Original) An energy storage system, comprising: a canister;

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an energy storage flywheel having a motor housing mounted inside the canister;

a first heat pipe having an evaporator and a condenser, the evaporator of the first heat pipe being mounted to the motor housing, the condenser of the first heat pipe outside the canister;

a second heat pipe having an evaporator conductively coupled to the condenser of the first heat pipe, the second heat pipe having a condenser;

a third heat pipe having an evaporator conductively coupled to the condenser of the second heat pipe, the third heat pipe having a condenser interfacing to a heat dissipating means.



- 18. (Original) The system of claim 17, wherein the second heat pipe is a thermosyphon.
- 19. (Original) The system of claim 17, wherein the evaporator of the third heat pipe is oriented substantially vertically, and the condenser of the third heat pipe is at a substantial angle away from vertical.
- 20. (Original) The system of claim 19, wherein the angle of the condenser of the third heat pipe is at least about 5 degrees from horizontal.
- 21. (Original) The system of claim 17, wherein the canister is a vacuum housing.

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- 22. (Original) The system of claim 17, wherein the heat dissipating means include circular fins arranged in a fin stack.
- 23. (Original) The system of claim 17, wherein at least one of the heat pipes has a wick in the evaporator thereof that does not extend into the condenser thereof.

